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1 State-of-the-art presentations: Distributed component technologies and their software engineering implications 87%

Wolfgang Emmerich

Proceedings of the 24th international conference on Software engineering May 2002

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...

2 ViBE: virtual biology experiments 80%

Rajaram Subramanian , Ivan Marsic

Proceedings of the tenth international conference on World Wide Web April 2001

3 Java resources for computer science instruction 80%

Joseph Bergin , Thomas L. Naps , Constance G. Bland , Stephen J. Hartley , Mark A. Holliday , Pamela B. Lawhead , John Lewis , Myles F. McNally , Christopher H. Nevison , Cheng Ng , George J. Pothering , Tommi Teräsvirta

Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education December 1998

4 P8: IDDS: an interactive decentralized documentation system 77%

Christoph Meinel , Harald Sack , Volker Schillings

Proceedings of the 19th annual international conference on Computer documentation October 2001

The paper describes the design and the application of an Interactive Decentralized Documentation System (IDDS). IDDS is a web-based, interactive documen-tation system that is especially designed for the support of working groups distributed over many places. It enables the creation of "just-in-time"-documentation and provides authoring tools for multimedia documents supporting multiple authors per document including a versioning

system. IDDS provides an HTML-frontend for being accessible anywher ...

5 Web technologies and applications (WTA): Towards increasing web application productivity 77%

Jia Zhang , Jen-Yao Chung , Carl K. Chang

Proceedings of the 2004 ACM symposium on Applied computing March 2004

In this paper we present and discuss a template/meta-data based partial code generation system supporting web application development. Seamlessly incorporating the recent top-notch technologies, the framework maximally exploits the capabilities of the underlying implementation technologies. Our approach primarily benefits the framework and code developers. In addition, the complete separation of data model, navigation model, and presentation model reflects on a more general conceptual process th ...

6 An architecture for heterogeneous groupware applications 77%

Ivan Marsic

Proceedings of the 23rd international conference on Software engineering July 2001

The proliferation of wireless networks and small portable computing devices raises the need for applications that are adaptable to heterogeneous computing and communication environments and the contexts in which they are used. However, most current groupware systems as well as other software applications are not well prepared to handle the heterogeneity. The Manifold framework presented here provides a software architecture for synchronous groupware applications to deal with heterogeneity. ...

7 Web-based personalization and management of interactive video 77%

Rune Hjelsvold , Subu Vdaygiri , Yves Léauté

Proceedings of the tenth international conference on World Wide Web April 2001

8 Technical papers: component technologies: The Vienna Component Framework enabling composition across component models 77%

Johann Oberleitner , Thomas Gschwind , Mehdi Jazayeri

Proceedings of the 25th international conference on Software engineering May 2003

The Vienna Component Framework (VCF) supports the interoperability and composability of components across different component models, a facility that is lacking in existing component models. The VCF presents a unified component model---implemented by a façade component---to the application programmer. The programmer may write new components by composing components from different component models, accessed through the VCF. The model supports common component features, namely, methods, prop ...

9 Features: The Big Bang Theory of IDEs 77%

Caspar Boekhoudt

Queue October 2003

Volume 1 Issue 7

10 Information systems: User interface code generation for EJB-based data models using intermediate form representations 77%

Branko Milosavljević , Milan Vidaković , Srdjan Komazec , Gordana Milosavljević

Proceedings of the 2nd international conference on Principles and practice of programming in Java June 2003

The use of J2EE platform enables data model development based on EJB components. Data modeling concepts of EJB technology, although resembling those of relational databases, are

different and need new methods for automated user interface code generation. This paper presents a method for user interface code generation based on intermediate form representations that can be used to build equivalent user interfaces in multiple environments like standalone GUI applications, web, or wireless devices. ...

11 Industry session 2: meditation and data sharing: The virGIS WFS-based spatial mediation system 77%

Omar Boucelma , Jean-Yves Garinet , Zoé Lacroix

Proceedings of the twelfth international conference on Information and knowledge management November 2003

The proliferation of spatial data on the Internet is beginning to allow a much wider access to data currently available in various Geographic Information Systems (GIS). In order to provide effective spatial database integration, we need to provide flexible and powerful GIS data integration solutions. Indeed, GIS are highly heterogeneous: not only they differ by their data representations, but they also offer radically different query languages. A GIS mediation approach should provide an integrat ...

12 XML transactions: An object-oriented extension of XML for autonomous web applications 77%

Hasan M. Jamil , Giovanni A. Modica

Proceedings of the eleventh international conference on Information and knowledge management November 2002

While the idea of extending XML to include object-oriented features has been gaining popularity in general, the potential of inheritance in document design has not been well recognized in contemporary research. In this paper we demonstrate that XML with dynamic inheritance aids better document designs and decreased management overheads and support increased autonomy. As an extended application, we point out that dynamic inheritance also helps effective automated web portal and ontology designs.W ...

13 NSF workshop on industrial/academic cooperation in database systems 77%

Mike Carey , Len Seligman

ACM SIGMOD Record March 1999

Volume 28 Issue 1

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1 Full Technical Papers: Tool support for designing nomadic applications 92%
Giulio Mori , Fabio Paternò , Carmen Santoro
Proceedings of the 8th international conference on Intelligent user interfaces January 2003

Model-based approaches can be useful when designing nomadic applications, which can be accessed through multiple interaction platforms. Various models and levels of abstraction can be considered in such approaches. The lack of automatic tool support has been the main limitation to their use. We present a tool, TERESA, supporting top-down transformations from task models to abstract user interfaces and then to user interfaces for different types of interaction platforms (such as mobile phones or ...

2 Multi-platform interfaces: Graceful degradation of user interfaces as a design method for multiplatform systems 91%
Murielle Florins , Jean Vanderdonckt
Proceedings of the 9th international conference on Intelligent user interface January 2004

This paper introduces and describes the notion of graceful degradation as a method for supporting the design of user interfaces for multiplatform systems when the capabilities of each platform are very different. The approach is based on a set of transformational rules applied to a single user interface designed for the less constraint platform. A major concern of the graceful degradation approach is to guarantee a maximal continuity between the platform specific versions of the user interface. ...

3 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools 91%
Jack Greenfield , Keith Short
Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2003

The confluence of component based development, model driven development and software product lines forms an approach to application development based on the concept of software factories. This approach promises greater gains in productivity and predictability than those produced by incremental improvements to the current paradigm of object orientation, which have not kept pace with innovation in platform technology. Software factories promise to make application assembly more cost effective thro ...

4 Demonstrations: A transformation-based environment for designing multi-device interactive applications 89%



Silvia Berti , Giulio Mori , Fabio Paternò , Carmen Santoro

Proceedings of the 9th international conference on Intelligent user interface January 2004

The ever-increasing availability of new types of devices raises a number of issues for user interface designers and interactive software developers. We have designed and developed a tool (TERESA), which can be helpful when designing applications accessible through various device types.

5 Multi-platform interfaces: Flexible interface migration 89%



Renata Bandelloni , Fabio Paternò

Proceedings of the 9th international conference on Intelligent user interface January 2004

The goal of this work is to provide users immersed in a multi-platform environment with the possibility of interacting with an application while freely moving from one device to another. We describe the solution that we have developed for a service to support platform-aware runtime migration for Web applications. This allows users interacting with an application to change device and continue their interaction from the same point. The service performs the migration of the application taking into ...

6 Decomposable negation normal form 89%



Adnan Darwiche

Journal of the ACM (JACM) July 2001

Volume 48 Issue 4

Knowledge compilation has been emerging recently as a new direction of research for dealing with the computational intractability of general propositional reasoning. According to this approach, the reasoning process is split into two phases: an off-line compilation phase and an on-line query-answering phase. In the off-line phase, the propositional theory is compiled into some target language, which is typically a tractable one. In the on-line phase, the compiled target is used to efficiently an ...

7 Short Papers: A graphical single-authoring framework for building multi-platform user interfaces 88%



Yun Ding , Heiner Litz , Dennis Pfisterer

Proceedings of the 9th international conference on Intelligent user interface January 2004

This paper presents our novel graphical single-authoring framework, which automatically creates customized user interfaces (UI) for a variety of devices by reusing an existing UI originally designed for large devices. It distinguishes itself from other authoring frameworks by its intuitive graphical support, UI reuse and its extensibility.

8 A case for test-code generation in model-driven systems 87%



Matthew J. Rutherford , Alexander L. Wolf

Proceedings of the second international conference on Generative programming and

component engineering September 2003

A primary goal of generative programming and model-driven development is to raise the level of abstraction at which designers and developers interact with the software systems they are building. During initial development, the benefits of abstraction are clear. However, during testing and maintenance, increased distance from the implementation can be a disadvantage. We view test cases and test harnesses as an essential bridge between the high-level specifications and the implementation. As such, ...

9 Contextual prototyping of user interfaces 85%



Chris Stary

Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques August 2000

Contextual development differs from traditional user interface development in several ways: It focuses on the context of usage and the user population rather than on the technical features required for interaction. However, the latter come into play when transforming context specifications into user-interface code. Contextual development also considers design to be a non-linear process based on activities (re)engineering work processes rather than performing traditional software-engineering ...

10 Modeling the performance of interface contraction 84%



H. Martin Bücker , Arno Rasch

ACM Transactions on Mathematical Software (TOMS) December 2003

Volume 29 Issue 4

Automatic differentiation is a technique used to transform a computer code implementing some mathematical function into another program capable of evaluating the function and its derivatives. Compared to numerical differentiation, the derivatives obtained from applying automatic differentiation are free from truncation error, and their computation often requires less time. To increase the efficiency of a black box approach of automatic differentiation, a technique called interface contraction ma ...

11 Short Papers: Handling device diversity through multi-level stylesheets 83%



Walter Dees

Proceedings of the 9th international conference on Intelligent user interface January 2004

With the advent of in-home networking and ubiquitous computing, it becomes apparent that we have an increasing need for automatic adaptation of user interfaces to different devices. Many of the techniques to date, have been focusing on making abstract models of the user interface in order to accommodate for a wide range of target devices. However, generating a user interface from only abstract models may result in unattractive and possibly unusable user interfaces. There is a need for navigation ...

12 Interacting with the WWW: Flexible, dynamic user interfaces for Web-delivered training 83%



Srdjan Kovacevic

Proceedings of the workshop on Advanced visual interfaces May 1996

One of the critical parts of a tutoring system is its user interface (UI), which must neither constrain an author in developing lessons, nor impede a student during practice. A system providing training over the Web must also address issues of interface transport, providing feedback and managing local context. We have developed a system, MUSE, that applies a model-based technology to address the above requirements. It supports a wide range of interface styles. Resulting UIs can be customized and ...

83%

13 Full Technical Papers: Dynamic web page authoring by example using ontology-based domain knowledge

José A. Macías , Pablo Castells

Proceedings of the 8th international conference on Intelligent user interfaces January 2003

Authoring dynamic web pages is an inherently difficult task. We present DESK, an interactive authoring tool that allows the customization of dynamic page generation procedures with no a-priori tool-specific skill requirements from authors. Our approach consists of combining Programming By Example (PBE) techniques with an ontology-based representation of knowledge displayed in web pages. DESK acts as a client-side complement of a dynamic web page generation system, PEGASUS, which generates HTML p ...

14 Design and development of data-intensive web sites: The Araneus approach 82%

Paolo Merialdo , Paolo Atzeni , Giansalvatore Mecca

ACM Transactions on Internet Technology (TOIT) February 2003

Volume 3 Issue 1

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

15 Facial animation framework for the web and mobile platforms 82%

Igor S. Pandzic

Proceeding of the seventh international conference on 3D Web technology February 2002

Talking virtual characters are graphical simulations of real or imaginary persons capable of human-like behavior, most importantly talking and gesturing. They may find applications on the Internet and mobile platforms as newscasters, customer service representatives, sales representatives, guides etc. After briefly discussing the possible applications and the technical requirements for bringing such applications to life, we describe our approach to enable these applications: the Facial Animation ...

16 Software economics: a roadmap 82%

Barry W. Boehm , Kevin J. Sullivan

Proceedings of the conference on The future of Software engineering May 2000

17 Systematic hypermedia application design with OOHDM 82%

Daniel Schwabe , Gustavo Rossi , Simone D. J. Barbosa

Proceedings of the the seventh ACM conference on Hypertext March 1996

18 A survey of image registration techniques 82%

Lisa Gottesfeld Brown

ACM Computing Surveys (CSUR) December 1992

Volume 24 Issue 4

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

19 Software engineering: Single-model method for specifying multi-agent systems 82%

Arnon Sturm , Dov Dori , Onn Shehory

Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003

Multiple modeling methods for constructing agent-based systems have been suggested, however none of them has been accepted as a standard. A prominent reason for this is the gap that exists between agent-oriented methods and the modeling needs of agent-based systems. This gap is, in large part, due to lack of an agreed-upon set of building blocks for modeling Multi-Agent Systems (MAS) and standalone agents, and lack of support for essential software engineering properties. To bridge the gap, we s ...

20 Reports from related meetings: Interface '99: a data mining overview 82%

Arnold Goodman

ACM SIGKDD Explorations Newsletter January 2000

Volume 1 Issue 2

This personal overview of Interface '99 is intended to communicate its meaning and relevance to SIGKDD, as well as provide valuable information on trends within the Interface for data miners seeking to learn more about statistics. In addition, it is the newest link in a bridge between the Interface and KDD begun by References 2-4 and the sessions on KDD at Interface '98 and Interface '99.

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Liu, J.B.;
Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference of the IEEE , Volume: 3 , 29 Nov.-2 Dec. 2001
Pages:1789 - 1793 vol.3

[Abstract] [PDF Full-Text (713 KB)] **IEEE CNF**

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Spooner, D.P.; Jarvis, S.A.; Cao, J.; Saini, S.; Nudd, G.R.;
Computers and Digital Techniques, IEE Proceedings- , Volume: 150 , Issue: 2 , March 2003
Pages:87 - 96

[Abstract] [PDF Full-Text (1429 KB)] **IEE JNL**

3 **Evolving the Web-based distributed SI/PDO architecture for high-performance visualization**
Holmes, V.P.; Linebarger, J.M.; Miller, D.J.; Vandewart, R.L.; Crowley, C.P.;
Simulation Symposium, 2001. Proceedings. 34th Annual , 22-26 April 2001
Pages:151 - 158

[Abstract] [PDF Full-Text (576 KB)] **IEEE CNF**

4 **The DADSim air defense simulation environment**
Sang Yeong Choi; Wijesekera, D.;
High Assurance Systems Engineering, 2000, Fifth IEEE International Symposim on. HASE 2000 , 15-17 Nov. 2000
Pages:75 - 82

[Abstract] [PDF Full-Text (680 KB)] IEEE CNF

5 **Virtual center for renal support: technological approach to patient physiological image**
Prado, M.; Roa, L.; Reina-Tosina, J.; Palma, A.; Milan, J.A.;
Biomedical Engineering, IEEE Transactions on , Volume: 49 , Issue: 12 , Dec. 2002

Pages:1420 - 1430

[Abstract] [PDF Full-Text (547 KB)] IEEE JNL

6 **Designing multimedia call management algorithms in UMTS multi-tier environment with soft-handoff procedure**
Iera, A.; Molinaro, A.; Marano, S.;
Personal, Indoor and Mobile Radio Communications, 2002. The 13th IEEE International Symposium on , Volume: 5 , 15-18 Sept. 2002
Pages:2228 - 2233 vol.5

[Abstract] [PDF Full-Text (514 KB)] IEEE CNF

7 **Using distributed component model for active service deployment**
Kilany, R.; Serhrouchni, A.;
Computers and Communications, 2002. Proceedings. ISCC 2002. Seventh International Symposium on , 1-4 July 2002
Pages:258 - 263

[Abstract] [PDF Full-Text (249 KB)] IEEE CNF

8 **A distributed component-oriented architecture for real-time ECG data acquisition systems**
Nagin, V.A.; Potapov, I.V.; Selishchev, S.V.;
Engineering in Medicine and Biology Society, 2001. Proceedings of the 23rd Annual International Conference of the IEEE , Volume: 4 , 25-28 Oct. 2001
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Engineering. A Programming Methodology for Dualtier Multicomputers Scott B. Baden University of
a migration path from singletier to dualtier **platforms**, and we illustrate this capability with a
ftp.cs.ucsd.edu/pub/scg/papers/1999/k2-tse99.ps.gz

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Design of a Distributed Interactive Online GIS Viewer by.. - Wu, Amaratunga, Chitradon (Correct)
Larger systems may even implement a **multi-tier** architecture. Data servers of various kinds can
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analysis is a new mathematical tool that can **transform** information into a multiresolution format. This
wavelets.mit.edu/Kevin/Papers/ASCE-GIS.ps

Experiences from extending a legacy system with CORBA components - Cot Centre For (Correct)
www.cit.dk/COT/reports/reports/Case4/08/cot-4-08.pdf

Distributed Architecture with XML and CORBA (I & II) - Balen, Elenko (1999) (Correct)
Distributed Architecture with XML **and** CORBA (I &II) Henry Balen, Mark Elenk
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main characteristic of the Manifold beans is the **multi-tier** architecture [11]The common three-tier
Unlike our labs, it appears that these are not **platform** independent Java applets. Hence a student would
Bean The conceptual model of a typical document **editor** is shown in Figure 1. The key concept is a Glyph,
www.www10.org/cdrom/papers/pdf/p513.pdf

Java Beans And Enterprise Java Beans - Vartiainen (Correct)
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From Information Structure to Intonation: A.. - Pirker, Niklfeld.. (1998) (Correct)
stands between these poles. 3.2 Linearization of **multitier** phonological structures As the twolevel
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consists of entries in phonemic form (using SAMPA **notation**) enriched with in 2 The filter handling uses
www.ai.univie.ac.at/~hannes/papers/hp-coling98.ps

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Architectural Patterns for Web Applications - Noack, Mehmaneche, Mehmaneche, .. (2000) (Correct)
Jrg Noack, Hamarz Mehmaneche, Homayoun Mehmaneche, **And**reas Zendle
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... medical diagnostic purposes*On **multi**-agent fault diagnosis\Improved ... recognition system using wavelet **transform** and direct linear discriminant ... of an open **platform** for voice over IP ...
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entation of Mechanisms for Concurrent 3D Design and Visualization. ... Exploring Web Site Log Data with a **Multi**-Classification Interface ... A Simple Step from Single- to **Multi**-user Environment ... Panayiotopoulos TI SimHuman: A **Platform** for Real-Time Virtual ...
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... on the Lx-ST200 **platform** and from 11% to 14 ... onto the target **platform**. A running **multi**-DSP application can ... our method, we first **transform** an original combinational circuit into ...
www.acm.org/sigs/sigda/Archives/ProceedingArchives/Date/papers/2003/date03/htmfiles/sun_sgi/frames/d ... - 243k - Cached

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21. http://ftp.uninett.no/debian/dists/unstable/non-free/binary-sparc/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
ftp.uninett.no/debian/dists/unstable/non-free/binary-sparc/Packages - 156k - Cached - More pages from this site

22. http://www.debian.cz/debian/dists/unstable/non-free/binary-arm/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
www.debian.cz/debian/dists/unstable/non-free/binary-arm/Packages - 158k - Cached - More pages from this site

23. UCS Magazine Archives
... the most marvelous new **widget** designed especially for your needs ... There is a fourth **platform** which is based on the ... a third wave or **Multi-tier** Distributed Applications are emerging ...
www.ucs.org/mag/archive/jan99.htm - 83k - Cached

24. Java Programmer's FAQ
... clients, network computers, RMI, **multi-tier** systems, Java threads, ActiveX ... 3.13 How do you **transform** a char into the ... your program into one **platform** (and other platforms if ...
users.informatik.fh-hamburg.de/~pfeiffer/pub/javafaq-pvlinden.html - 231k - Cached

25. http://devel.demudi.org/debian/dists/unstable/non-free/binary-powerpc/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
devel.demudi.org/debian/dists/unstable/non-free/binary-powerpc/Packages - 199k - Cached

26. http://www.students.cs.unibo.it/debian/dists/unstable/non-free/binary-alpha/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is

easy to use and available for every TCP/IP **platform** ...
www.students.cs.unibo.it/debian/dists/unstable/non-free/binary-alpha/Packages - 179k - Cached - More pages from this site

27. http://www.uni-koeln.de/ftp/debian/dists/unstable/non-free/binary-powerpc/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
www.uni-koeln.de/ftp/debian/dists/unstable/non-free/binary-powerpc/Packages - 183k - Cached

28. http://www.um.es/ftp/mirror/debian/dists/sid/non-free/binary-i386/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
www.um.es/ftp/mirror/debian/dists/sid/non-free/binary-i386/Packages - 241k - Cached

29. http://pcleon.if.ufrgs.br/pub/debian/dists/woody/non-free/binary-m68k/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
pcleon.if.ufrgs.br/pub/debian/dists/woody/non-free/binary-m68k/Packages - 177k - Cached - More pages from this site

30. ADASS XI: Poster Contributions
... flexible and modular 3-**tier** architecture: User Interface and ... This is the **platform** which has been used successfully ... P-33: TEBC: A **Multi**-mission Time, Ephemeris, and Barycenter ...
cadcwww.dao.nrc.ca/adass_2001/posters.html - 170k - Cached

31. JD on MX
... must be built in for each **platform**. If you're creating ... He then applies Branden Hall's **transform** class (correct version here ... drivers behind the **multi-tier** Macromedia MX strategy, as ...
www.markme.com/jd/archives/2003_02.cfm - 334k - Cached

32. http://www.ext.netg.se/debian/dists/unstable/non-free/binary-arm/Packages
It was designed primarily for folk and traditional tunes of Western European origin (such as Irish, English and Scottish) which can be written on one stave in standard classical notation. ... preprocessor for **multi**-stave music and ... Athena Text **Widget** it features ... **multi-tier** and highly scalable solution - message agent is easy to use and available for every TCP/IP **platform** ...
www.ext.netg.se/debian/dists/unstable/non-free/binary-arm/Packages - 186k - Cached

33. http://lists.tunes.org/archives/tunes/2003-October.txt
... specifications for any given **platform**. You need only one software ... take

unordered source and **transform** it into an optimal logical ... order to build a **multi-tier** system, or who are ...
lists.tunes.org/archives/tunes/2003-October.txt - 300k - Cached - More pages from this site

34. Results of Search
... GUIs). Simply select desired **widget**, drag, and drop. Use unique **widget** properties to assign special settings ... Teamwork/DSE provides interface, **multi-**windowed editing, user-defined ...
archive.adaic.com/tools/pt.html - 524k - Cached

35. BibliographyHTML(COPY)
... Smart Support: How to **Transform** Your Support Organization by Leveraging What You Know ...
domin.dom.edu/faculty/SRIKANT/lis88001/kmbib.html - 383k - Cached - More pages from this site

36. Session R1 - Poster Session III.
... data with a **multi**-level kinetic model indicates ... photoelectron spectroscopy, Fourier **transform** infrared spectroscopy and mass ... may enable the **multi-**gigawatt capacity transmission line ...
epswww.epfl.ch/aps/meet/MAR03/baps/abs/S6010.html - 408k - Cached

37. discuss@bloom-picayune.mit.edu: [23693] in "Perl-Users-Digest"
... MacOS, does not define a **widget** set. Tk uses its ... running on a Windows NT 4 **platform**. How can i ... you can use the **multi-tier** drivers from http://www ...
www.mit.edu:8008/bloom-picayune.mit.edu/perl/23693 - 44k - Cached

38. http://physjob.nudl.org/~akrowne/ri_ncstrl.xml
In particular, we rigorously demonstrate that multiple inheritance is an implementation requirement, as is the formal treatment of the class hierarchies as lattices with defined least upper, and greatest lower, bound operators. ... An application to **multi**-sensor fusion is described, where the ... We then **transform** the interpreter into an interpreter for ...
physjob.nudl.org/~akrowne/ri_ncstrl.xml - 524k - Cached

39. ::: nefzger dot at ::: (You are here: > //nefzger.at/whatisit.html)
... ETL. Extract, **Transform**, Load. ETX. End of TeXt ... MHP. Multimedia Home **Platform**. MHS. Message Handling System ... Information Base. MIDAS. **Multi-tier** Distributed Application Services suite ...
www.nefzger.at/whatisit.html - 195k - Cached

40. http://lsdis.cs.uga.edu/~gowtham/mytemp/xdj.html
entation of Mechanisms for Concurrent 3D Design and Visualization. ... Exploring Web Site Log Data with a **Multi**-Classification Interface ... Direct Manipulation and 3D Gearbox **Widget**. PP 524-531 ... Panayiotopoulos TI SimHuman: A **Platform** for Real-Time Virtual ...
lsdis.cs.uga.edu/~gowtham/mytemp/xdj.html - 512k - Cached

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Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ		
☐	L15	L14 and meta$	1
☐	L14	L5 and abstract notation	1
☐	L13	L10 and abstract notation	1
☐	L12	L10 and l4	11
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L11	L10	0
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L10	L9 and platform	77
☐	L9	L8 and transform$	115
☐	L8	L7 or l6 or l5	419
☐	L7	central application	297
☐	L6	n-tier application	31
☐	L5	multi-tier application	98
	DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ		
☐	L4	L3 or l2 or l1	6430
☐	L3	715/512-516.ccls.	2079
☐	L2	709/248-251.ccls.	2373
☐	L1	717/100-123.ccls.	2047

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Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L8	L5 and widget	39
☐	L7	L5 and central application	3
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L6	L5	0
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L5	L3 and XML	146
☐	L4	L3 and abstract notation	1
☐	L3	L2 and (transform$ or mapping)	264
☐	L2	L1 and platform	555
☐	L1	multi tier or multi?tier	2031

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Search Results - Record(s) 1 through 20 of 39 returned.

☐ 1. Document ID: US 20040015832 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 39 File: PGPB Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015832
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040015832 A1

TITLE: Method and apparatus for generating source code

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stapp, Michael	Westford	MA	US	
Morgan, Robert	Concord	MA	US	

US-CL-CURRENT: 717/106; 717/149

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Ir

☐ 2. Document ID: US 20030212654 A1

L8: Entry 2 of 39 File: PGPB Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030212654
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030212654 A1

TITLE: Data integration system and method for presenting 360.degree. customer views

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Harper, Jonathan E.	Louisville	CO	US	
Pope, Benjamin R.	Longmont	CO	US	
Wavell, Rufus	Boulder	CO	US	
Barry, Jeffrey	Denver	CO	US	
Myers, William P.	Thornton	CO	US	
Paracha, Bipin	Longmont	CO	US	

Handerhan, Patrick	Longmont	CO	US
Severson, Eric	Broomfield	CO	US
Foster, Gary	Loveland	CO	US
Torrance, John	Lafayette	CO	US

US-CL-CURRENT: 707/1

ABSTRACT:

A data integration system and method collects and stores customer information from disparate information sources in real-time. The stored information can be retrieved and assembled for presentation to a user according to the role and/or security profile of the user. The customer information is presented through a 360.degree. viewer, which is embedded in an application or a browser, or runs as a standalone viewer. A data correlation system and method correlates data records collected from disparate Customer Relationship Management (CRM) applications using a three-tier approach comprising deterministic correlation, heuristic correlation and historical correlation. The correlation rules are fully configurable and extensible.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Ir

☐ 3. Document ID: US 20030058277 A1

L8: Entry 3 of 39 File: PGPB Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030058277
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030058277 A1

TITLE: A VIEW CONFIGURER IN A PRESENTATION SERVICES PATTERNS ENVIROMENT

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BOWMAN-AMUAH, MICHEL K.	COLORADO SPRINGS	CO	US	

US-CL-CURRENT: 345/765

ABSTRACT:

A system, method and article of manufacture are provided for assigning a view to an activity. Notification is received that a startup event of an activity has occurred. A reference to a first instance of an object created by the startup event of the activity is also received. A view to launch is determined in response to the receipt of the notification and the reference. The view is based on predetermined criteria. The view is associated with the activity and displayed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Ir

☐ 4. Document ID: US 20030051226 A1

L8: Entry 4 of 39 File: PGPB Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030051226
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030051226 A1

TITLE: System and method for multiple level architecture by use of abstract application notation

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zimmer, Adam	Waterloo		CA	
Neame, Michael	Waterloo		CA	
Pennarun, Avery	Montreal		CA	

US-CL-CURRENT: 717/102; 717/104, 717/107

ABSTRACT:

A system and method of translating an abstract notation of an application to a series of sub-applications representing a central application. Also described is a multi-tier application system for generating the central application for deployment on a predetermined combination of selected components. The system comprises an abstract notation description file to contain data for the central application. The system also has an application editor for entering a selected set of input parameters to provide the data, and an application generator for transforming the data from the abstract notation to a selected platform notation corresponding to the selected components. The selected notation is contained in the central application, wherein the deployment of the central application monitors the communication of component data between the selected components. The sub-application can be generated for a variety of computer platforms or languages for deployment on an n-tier system, as directed by the intended components. The central application can be applied to distributed web data-centric application.

☐ 5. Document ID: US 20020147763 A1

L8: Entry 5 of 39 File: PGPB Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147763
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020147763 A1

TITLE: Smart generator

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, William W.	Boston	MA	US	
Pelenur, Julian	Marblehead	MA	US	

US-CL-CURRENT: 709/202; 717/100

ABSTRACT:

The Smart Generator of the present invention allows the designer/developer/user to model the EJB components in a natural way without being concerned with implementation-specific details. The developer models the business objects using a UML drawing tool and the Smart Generator creates a set of classes that implements these objects with reference to the Enterprise JavaBeans specification. That is, the Smart Generator automatically create access methods and handling containment of references from the UML diagram.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Ir

☐ 6. Document ID: US 20020108099 A1

L8: Entry 6 of 39 File: PGPB Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020108099
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020108099 A1

TITLE: Method for developing business components

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Paclat, Charles	Medford	MA	US	

US-CL-CURRENT: 717/102; 717/107, 717/114

ABSTRACT:

A process for developing an Enterprise JavaBean (EJB) component by analyzing a business domain to generate functional requirements that models the business domain. The functional requirements are transformed into an EJB component model, preferably using a UML drawing tool. The resulting EJB component is then built from the EJB component model that encompass the business functionality of the business domain. The present process enables the user/developer to research business problems or domain (i.e., business project) and transforms them into EJB components.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Ir

☐ 7. Document ID: US 20020091923 A1

L8: Entry 7 of 39 File: PGPB Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020091923
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020091923 A1

TITLE: System, method, and medium for retrieving, organizing, and utilizing networked data using databases

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chipman, Richard R.	Reston	VA	US	
Mankofsky, Alan	Falls Church	VA	US	
Karandikar, Harshavardhan M.	Heidelburg	VA	DE	
Warren, Gary	Fairfax	VA	US	
Laskey, Kenneth J.	Reston		US	

US-CL-CURRENT: 713/168

ABSTRACT:

A networked catalog search, retrieval, and information correlation and matching system is disclosed. The system allows suppliers to publish information in electronic catalogs, structure the information in an object oriented representation distributed across a network of computers, for example, the Internet. The system also enables customers to search and retrieve information on products and suppliers that match dynamically specified customer requirements. Through retrieving protocol compliant pages or other information, a search engine forwards retrieved pages to a database which sorts received information by the information's internal organization structure. By searching the information as stored in the knowledge base, a user may quickly retrieve the stored information as highly tailored to the user's search strategy. Also, additional tools operate on the stored information to, inter alia, organize design trades between selected elements where additional design and selection options are provided to each user. Further, the system supports product creation as formed of constituent parts. These products may then be used as parts to be formed into higher-level products.

☐ 8. Document ID: US 20020069081 A1

L8: Entry 8 of 39 File: PGPB Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020069081
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020069081 A1

TITLE: Methods and systems for providing employment management services over a network

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ingram, Aubrey Lee	Newburyport	MA	US	
Nazzaro, William F.	Collegeville	PA	US	
Trice, Andrew	Arlington	VA	US	
Waluk, Michael J.	Richmond	RI	US	
Dooley, Jeff	Framingham	MA	US	
Phillips, Kenneth F.	Natick	MA	US	
Bennett, Scott	Belmont	MA	US	

US-CL-CURRENT: 705/1

ABSTRACT:

The present disclosure is directed to systems and methods for providing employment management services to a user via a network. The systems disclosed herein can comprise a portal server hosting at least a portion of an employment management services accessible to a user via a client system, at least one business application, wherein said at least one business application concerns an employment service which is offered to the user, at least one database of information concerning an employment service which is offered to the user, and wherein the employment management services includes a user interface comprising controls whereby the user submits information. The system can assist a services manager in managing employment services being offered to the user. The methods disclosed herein include providing a user interface having controls to a user to access an employment management services, receiving first information from the user via the controls; and processing the received information to provide an employment service to the user.

☐ 9. Document ID: US 20020055928 A1

L8: Entry 9 of 39 File: PGPB May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055928
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055928 A1

TITLE: Methods and apparatus employing multi-tier de-coupled architecture for enabling visual interactive display

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Worthington, Jeffrey L.	Harleysville	PA	US	

US-CL-CURRENT: 707/102

ABSTRACT:

Open scalable architecture or infrastructure is provided that includes decoupled tiers

that collectively transform data into information and then into content, and then finally into visual interactions creating an engaging user experience. The architecture enables ad hoc or directed decoupling of tiers allows for reuse at level above plain content: business rules, presentation rules, declared interactions, event reporting, and content and information assets may all be cached and reused as needed. The architecture manages the integration of multiple data sources into semantically rich markup for driving effective visual interactions. The architecture further enables integration points at each tier for maximum partner interoperability, and the decoupled tires allow for separate scalability at each level. The system is customizable using one of several templates. A partner or customer can prepare its data according to the particular template, thereby eliminating or substantially diminishing the amount of custom-programming.

☐ 10. Document ID: US 20020052941 A1

L8: Entry 10 of 39 File: PGPB May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020052941
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020052941 A1

TITLE: Graphical editor for defining and creating a computer system

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Patterson, Martin	Mountain View	CA	US	

US-CL-CURRENT: 709/223; 709/222

ABSTRACT:

A method and apparatus for defining and deploying a networked computer system features creating and storing a graphical representation using a graphical editor to drag and drop icons representing computing elements and network elements into a workspace, such that a logical configuration of the networked computer system is represented by the graphical representation. A corresponding textual representation of the computer system is automatically created and stored according to a structured markup language. Based on the textual representation, one or more commands are generated for configuring an operable computer system that conforms to the logical configuration. The commands may be directed to one or more devices that are interconnected to one or more computing elements and storage devices, to instruct the devices to logically connect the computing elements and storage devices into the computer system. In one embodiment, a graphical representation of the logical configuration of the networked computer system is created, based on a user selection from a palette of one or more graphical icons that represent computing elements and network elements of the computer system, and a user selection of graphical interconnections of the icons. As a result, a real-world virtual server farm or data center may be created and deployed.

☐ 11. Document ID: US 6715145 B1

L8: Entry 11 of 39 File: USPT Mar 30, 2004

US-PAT-NO: 6715145
DOCUMENT-IDENTIFIER: US 6715145 B1

TITLE: Processing pipeline in a base services pattern environment

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 718/101; 718/100, 719/316

ABSTRACT:

A system and method, are provided for structuring batch activities for simplified reconfiguration. A series of processing steps is prepared for performing on input objects being streamed into a batch processing system. Each of the processing steps is encapsulated within at least one of a plurality of filters. The input objects are received and processed in the filters. Results are delivered from the filters incrementally during the processing of the input objects for reducing latency and enabling parallel processing. Connectors are utilized for connecting at least two of the plurality of filters each having a processing step for creating a process. One of the two filters is an input filter of the process and the other of the two filters is an output filter of the process. Connectors are also used for connecting input and output filters of different processes for forming a scalable system.

18 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

☐ 12. Document ID: US 6697824 B1

L8: Entry 12 of 39 File: USPT Feb 24, 2004

US-PAT-NO: 6697824
DOCUMENT-IDENTIFIER: US 6697824 B1

TITLE: Relationship management in an E-commerce application framework

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/229; 709/223

ABSTRACT:

A system and method are provided for interacting with a user over a network for personalizing a website. A user is identified and information about the user is collected. A profile of the user is built based on the collected information and a plurality of different contents are managed. The profile and the contents are analyzed in order to match attributes of the profile of the user and attributes of the contents. The contents which have attributes that match the attributes of the profile of the user are then selected and delivered to the user. The user is allowed to manually select which of the delivered contents are depicted on a display. The user is also allowed to selectively position the delivered contents on the display.

18 Claims, 46 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 30

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw Desc | Ir

☐ 13. Document ID: US 6640249 B1

L8: Entry 13 of 39 File: USPT Oct 28, 2003

US-PAT-NO: 6640249
DOCUMENT-IDENTIFIER: US 6640249 B1

TITLE: Presentation services patterns in a netcentric environment

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/228; 719/315

ABSTRACT:

A system, method and article of manufacture are provided for implementing presentation services patterns. Non-presentation logic executed on a client is assigned to an activity for allowing reuse of the non-presentation logic across multiple, volatile user interfaces. A view is assigned to the activity. Validation rules are also structured for validating user data across the multiple user interfaces.

15 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw Desc | Ir

☐ 14. Document ID: US 6640244 B1

L8: Entry 14 of 39 File: USPT Oct 28, 2003

US-PAT-NO: 6640244
DOCUMENT-IDENTIFIER: US 6640244 B1

TITLE: Request batcher in a transaction services patterns environment

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/207; 707/10, 718/101

ABSTRACT:

A system and method are provided for batching logical requests for reducing network traffic. A group of business objects necessary for a transaction are provided and managed in a logical unit of work. Logically-related requests received from the logical unit of work are grouped into a first single network message, and update and retrieval transactions are grouped into a second single network message. The first and second messages are stored, and the first message is sent upon receiving an order to send the first message and the second message is sent upon receiving an order to send the second message.

15 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

☐ 15. Document ID: US 6640238 B1

L8: Entry 15 of 39 File: USPT Oct 28, 2003

US-PAT-NO: 6640238
DOCUMENT-IDENTIFIER: US 6640238 B1

TITLE: Activity component in a presentation services patterns environment

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michael K.	Colorado Springs	CO		

US-CL-CURRENT: 709/201; 709/203, 709/223, 709/224

ABSTRACT:

A system, method, and article of manufacture provide for an activity module. A server and a presentation interface of a client are interfaced to permit the receipt of requests for service from the presentation interface of the client. A portion of the requests are handled on the client. Another portion of the requests are forwarded to the server for further handling purposes and changes are effected in the presentation interface.

18 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 16. Document ID: US 6636242 B2

L8: Entry 16 of 39 File: USPT Oct 21, 2003

US-PAT-NO: 6636242
DOCUMENT-IDENTIFIER: US 6636242 B2

TITLE: View configurer in a presentation services patterns environment

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 345/764; 345/733, 345/744, 345/762, 345/765

ABSTRACT:

A system, method and article of manufacture are provided for assigning a view to an activity. Notification is received that a startup event of an activity has occurred. A reference to a first instance of an object created by the startup event of the activity is also received. A view to launch is determined in response to the receipt of the notification and the reference. The view is based on predetermined criteria. The view is associated with the activity and displayed.

17 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 17. Document ID: US 6615253 B1

L8: Entry 17 of 39 File: USPT Sep 2, 2003

US-PAT-NO: 6615253

DOCUMENT-IDENTIFIER: US 6615253 B1
**** See image for Certificate of Correction ****

TITLE: Efficient server side data retrieval for execution of client side applications

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/219; 707/100, 711/118

ABSTRACT:

A system, method, and article of manufacture are provided for efficiently retrieving data. A total amount of data required for an application executed by a client is determined. In a single call, the total amount of data from a server is requested over a network. All of the data is bundled into a data structure by the server in response to the single call. The bundled data structure is sent to the client over the network and the data of the data structure is cached on the client. The cached data of the data structure is used as needed during execution of the application on the client.

18 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

☐ 18. Document ID: US 6615199 B1

L8: Entry 18 of 39 File: USPT Sep 2, 2003

US-PAT-NO: 6615199
DOCUMENT-IDENTIFIER: US 6615199 B1
**** See image for Certificate of Correction ****

TITLE: Abstraction factory in a base services pattern environment

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 706/50

ABSTRACT:

An abstraction factory pattern in a client/server architecture receives and transforms data into a plurality of concrete objects. Each of the concrete objects is associated with an abstract interface. A map of the association between the concrete objects and the abstract interface is created. When a request is received from the client (which

includes an identifier for one of the concrete objects and an identifier for the abstract interface) the map on the server is consulted to locate the concrete object that has been identified. Then, an abstract object is created that corresponds to the located concrete object such that the abstract object serves as a handle, generically manipulable by the client/server architecture. The invention represents a way to encapsulate diversity such that only those parts of the system that need to understand the difference between two objects have to deal with those differences.

12 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc | Ir

☐ 19. Document ID: US 6606660 B1

L8: Entry 19 of 39 File: USPT Aug 12, 2003

US-PAT-NO: 6606660
DOCUMENT-IDENTIFIER: US 6606660 B1

TITLE: Stream-based communication in a communication services patterns environment

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/227

ABSTRACT:

A system, method, and article of manufacture are disclosed for providing a stream-based communication system. A shared format is defined on interface code for a sending system and a receiving system. A message to be sent from the sending system to the receiving system is translated based on the shared format. Once translated, the message is then sent from the sending system and received by the receiving system. Once the message is received by the receiving system, the message is then translated based on the shared format.

18 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc | Ir

☐ 20. Document ID: US 6601234 B1

L8: Entry 20 of 39 File: USPT Jul 29, 2003

US-PAT-NO: 6601234
DOCUMENT-IDENTIFIER: US 6601234 B1

TITLE: Attribute dictionary in a business logic services environment

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/108; 705/7, 717/107, 717/116

ABSTRACT:

A system and method are provided for controlling access to data of a business object via an attribute dictionary. The attribute dictionary, which stores attribute names and values, is dispatched over a network. A helper facade is provided for interfacing a business object and the attribute dictionary. Next, it is verified that a current user is authorized to either set or get one of the attribute values upon a request which includes the attribute name that corresponds to the attribute value. The helper facade is called to set, get, or update one of the attribute values based on the corresponding attribute name, wherein the helper facade shields the attribute dictionary from the application code of the business object. The attribute value in the attribute dictionary is obtained or updated if the verification is successful, and a dirty flag is set in the attribute dictionary and an indicator is broadcast upon the attribute value being updated.

15 Claims, 195 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 123